

ABSTRACT

Structure, system, apparatus, method, and computer program for managing and configuring a computer storage system and which are well suited for managing and 5 configuring array controllers in a storage subsystem by mapping the topology and connectivity of all servers, storage devices, and storage device controllers within the storage subsystem, based on unique identifiers especially WWN identifiers. A method for collecting connection information for a computer system having a server, at least one device controller coupled to the server, and a client coupled with the server. The method 10 includes querying the server to identify host bus adapters coupled to it, querying each host bus adapter to identify attached device controllers, issuing a read connection information command to the device controller and returning the connection results including identifying devices coupled to the device controller, and storing the returned connection results in a data structure. In one embodiment, the connection results include a server 15 identifier, a host bus adapter identifier corresponding to the server, and a device controller identifier, and the data structure comprises a server identification table and at least one host bus adapter connection table associated with a particular host bus adapter. In other aspects, the invention includes a computer program in the form of computer software and/or computer firmware implementing the inventive procedures and method, a 20 computer program product storing the inventive computer program in tangible form, a device controller utilizing the structure and method of the invention, and a computer system incorporating the inventive mapping method.